Digital Conically Scanned L-Band Radar, Phase II

Completed Technology Project (2009 - 2011)



Project Introduction

The proposed effort seeks to develop a digitally steered polarimetric phased array L-Band radar utilizing a novel, high performance architecture leveraging recent advances in radio frequency and digital signal processing components. The driving methodologies are: the minimization of costly and inflexible analog circuitry, adoption of standardized manufacturing processes, and inclusion of reconfigurable software/firmware architectures to facilitate fulfillment of varied sensing requirements. The Phase II effort will build upon the successful Phase I demonstration of the system concept through fabrication of a 2 Dimensional instrument and system validation in a relevant environment.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
☆Goddard Space	Lead	NASA	Greenbelt,
Flight Center(GSFC)	Organization	Center	Maryland
Dynamic Sensing	Supporting	Industry	Amherst,
Technologies	Organization		Massachusetts



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Table of Contents

Project Introduction		
Primary U.S. Work Locations		
and Key Partners		
Organizational Responsibility		
Project Management		
Technology Areas		

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer



Small Business Innovation Research/Small Business Tech Transfer

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Primary U.S. Work Locations	
Maryland	Massachusetts

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Technology Areas

Primary:

